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CONFERENCE ON PRESENT AND FUTURE OF INDOOR AIR QUALITY

CONFERENCE SUR LE PRESENT ET LE FUTUR DE LA QUALITE DE L'AIR AMBIANT

14, 15 & 16 II. 1989

Brussels Congress Centre

Palais des Congrès de Bruxelles

P R O G R A M M E

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Organizing & Scientific Committee

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Organizers - Administratif Secretariat

E.C.C.O. (European Congress Consultants & Organizers)
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Time Schedule & Social Events

Monday, 13 February 1989

16.00-19.00 Opening of registration and distribution of documents

Tuesday, 14 February 1989

09.00-12.30 Opening session : Risk Assessment and Health
12.30-14.00 Lunch break
14.00-18.15 Session I : ETS and Passive Smoking
18.15-19.30 Poster session
19.30-21.00 Get-together Reception Brussels Congress Center

Wednesday, 15 February 1989

09.00-12.30 Session II : IAQ Chemistry and Biological Effects
12.30-14.00 Lunch break
14.00-18.15 Session III : IAQ Ventilation, Climatisation and Pollutants
20.00 Gala dinner (optional) Hotel Astoria

Thursday, 16 February 1989

09.00-12.15 Session IV : IAQ Prevention and Future Guidelines
12.15-13.00 Closing session

Programme for Accompanying Persons

Registered Accompanying Persons are invited to the congress social events as mentioned in the timeschedule. In addition the following programme is arranged during sessions time. The meeting point for the tours is Palais des Congres, 15 minutes before the scheduled hour.

Tuesday 14 February 1989

09.30-12.30 **Guided sightseeing tour on the theme:**
"Brussels- Art Nouveau"
Towards the end of the 19th century, the reigning styles in construction were still neostyles but a group of architects among whom V. Horta, H. van de Velde, E. Blérot, P. Hunker etc. conceived a new type of architecture influenced by the ideas of that period.
The new style did not survive for very long (1890 to 1910) but has reached in Brussels a level which is unique in Europe.

Wednesday, 15 February 1989

09.00-17.00 **Guided sightseeing tour of Bruges (Luncheon included)**
Bruges is one of Europe's loveliest cities, a romantic open air museum of churches, elegant houses, famous canals and internal ports, the one city in Belgium which is an absolute "must" for the tourist.

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Scientific Information

Scientific sessions

All the conference sessions will be held in the Albert I hall.

Projection

Speakers are kindly requested to check their slides and to hand them to the Projection desk at least half a day prior to presentation. They are also requested to collect their slides from the Projection Desk immediately after the end of the session.

Poster presentations

Posters will be presented in the hall Astrid situated on level C.

Presenting authors are kindly requested to mount their poster on the board marked with their number, as listed in the programme on Monday afternoon or Tuesday morning before 09.00hrs. They are also requested to be present next to their poster during poster discussion.

The meeting secretariat is provided with all necessary material for fixing the posters.

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General Information

Venue Brussels Congress Centre
Coudenberg, 3
B-1000 Brussels
Belgium
Tel : (02) 513.4130

Dates 14 to 16 February 1989

Languages The working languages of the Conference are English & French. Simultaneous interpretation is provided.

Offices and desks

Organizing Committee - Secretariat - Registration - Information - Projection - Message centre

The desks are open for registration and for your convenience during the following hours :

Monday, 13 February 1989	from 16.00 to 19.00 hrs
Tuesday, 14 February 1989:	from 08.00 to 19.30 hrs
Wednesday, 15 February 1989:	from 08.00 to 19.00 hrs
Thursday, 16 February 1989:	from 08.00 to 13.00 hrs

Name badge

The meeting kit handed to you after registration contains amongst other material your name badge; you are kindly requested to wear it when attending scientific sessions and social events.

Coffee breaks

Refreshments and coffee will be served during intermissions in the congress centre foyer.

Luncheons

The Congress Centre area offers numerous restaurants of various categories and prices.

Social events

You will find the invitation to the welcome Reception and the optional Banquet ticket (if you preregistered) in your personal envelope. They will serve as entry tickets.

Gala Dinner

The Gala Dinner is held on Wednesday 15 February 1989 at 20.00hrs at Hotel Astoria. Transportation will not be provided. If you still wish to attend the banquet you can purchase tickets at the secretariat not later than Wednesday 15 February 1989 at 10.30hrs.

Travel arrangements

For travel arrangements and flight confirmations please apply to the Information Desk

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Tuesday, 14 February 1989
Mardi, 14 février 1989

Albert I Hall

Opening Session Séance d'ouverture

RISK ASSESSMENT AND HEALTH
SANTÉ ET EVALUATION DU RISQUE

09.00 O1 **Cancer Control and Lifestyle Medicine**
E.L. Wynder (American Health Foundation, USA)

09.30 O2 **Biomarkers of exposure : how practical, how useful ?**
S. Schwartz (Georgetown University Medical Centre, Washington DC, USA)

09.50 O3 **The sick building syndrome : clinical aspect and prevention**
C. Molina (Université de Clermont Ferrand, France)

10.10 O4 **L'air ambiant, perceptions et seuils de tolérance : des normes sociales en changement**
N. Delruelle (Institut de Sociologie, Université Libre de Bruxelles, Belgique)

10.30 **Coffee break/Pause café**

Chairmen
M.L. Efthymiou & M. Vanhoorne

11.00 O5 **Les inquiétudes et les risques de la pollution domestique, recensés dans un Centre anti-poisons, à propos de 329 incidents en 1 an.**
G. Riboulet-Delmas, R. Garnier & M.L. Efthymiou (Centre Anti-Poisons, Paris, France)

11.15 O6 **Le monoxyde de carbone : épidémiologie et prévention des intoxications aigues dans l'agglomération bruxelloise**
B. Tissot*, N. Tinan** & M. Govaerts* (*Centre antipoisons, Bruxelles & **Cultures et Santé, Bruxelles, Belgique)

11.30 O7 **Etat actuel des recherches en matière de qualité de l'air à l'intérieur des locaux**
J.C. Loewenstein (Electricité de France, Direction des Etudes et Recherches, Chatou, France)

11.45 O8 **Radon and lung cancer : a casecontrol study in southern Belgium**
A. Poffijn*, R. Mak, J. Prignot**, M. Vanhoorne & P. Weynants** (Department of Hygiene and Social Medicine & *Laboratory of Physics, Ghent State University, **Mont Godinne Hospital, Department of Pneumology, Catholic University of Louvain, Belgium)

12.00 O9 **Indoor Radon in Belgium**
A. Poffijn & H. Vanmarcke (Laboratory of Physics & Laboratory of Nuclear Physics, Ghent State University, Belgium)

12.15 O10 **Radon dynamics in an unheated house**
D. Furrer, R. Crameri & W. Burkart (Radiation Hygiene Division, Paul Scherrer Institute, Villigen, Switzerland)

12.30 **Lunch break/Pause déjeuner**

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Tuesday, 14 February 1989
Mardi, 14 février 1989

Albert I Hall

Session I

ETS AND PASSIVE SMOKING
LA FUMEÉ DE TABAC DANS L'ENVIRONNEMENT ET LE TABAGISME PASSIF

Chairmen
A. Hirsch & T.D. Sterling

14.00 O11 **Tabagisme et santé : le cas de la France**
A. Hirsch (Service de Pneumologie, Hôpital St. Louis, Paris, France)

14.20 O12 **Environmental tobacco smoke and lung cancer : is it the smoke or the diet ?**
L.C. Koo (Department of Community Medicine, Medical Faculty, University of Hong-Kong)

14.40 O13 **Dietary habits are of limited importance in influencing the lung cancer risk among Japanese females who never smoked**
T. Hirayama (Institute of Preventive Oncology, Japan)

15.00 O14 **An example of extrapoisson variation suggesting an underspecified model**
S.J. Kilpatrick,Jr. (Virginia Commonwealth University, USA)

15.20 O15 **Lung cancer risk by oral exposure**
R. Rylander & H.J. Haussmann* (Department of Environmental Hygiene, University of Gothenburg, Sweden & *Institute of Biological Research, Cologne, F.R. Germany)

15.30 O16 **Passive smoking : Acute effects on lung function of sensitive persons**
B. Danuser, A. Weber & L. Hartmann* (Inst. fur Hygiene und Arbeitsphysiologie, Swiss Federal Inst. Technology, Zurich & *Allergiestation der Dermatologischen Universitatsklinik, Zurich, Switzerland)

15.40 O17 **Evaluation de l'exposition à un environnement : quelques exemples concrets relatifs à l'utilite des indicateurs atmospheriques et biologiques**
A.M. Laurent, Y. Courtois, S. Pretet, J.R. Claude & B. Festy (Laboratoire d'Hygiène de la Ville de Paris, France)

15.50 O18 **Exposure to environmental tobacco smoke in the non industrial workplace under different conditions of ventilation and smoking regulation**
T.D. Sterling, C.W. Collett* & J.A. Ross** (Faculty of Applied Sciences, School of Computing Science, Simon Fraser University, Burnaby, Vancouver & *Theodor D. Sterling & Associates, Vancouver, Canada)

16.00 **Coffee break/Pause café**

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Tuesday, 14 February 1989 **Albert I Hall**
Mardi, 14 février 1989

Session I (cont'd)

ETS AND PASSIVE SMOKING
LA FUMEÉ DE TABAC DANS L'ENVIRONNEMENT ET LE TABAGISME PASSIF

Chairmen
S. Schwartz & Y. Courtois

16.30 **019** **Passive smoking and lung cancer. Fact or fiction ?**
P. Lee (PN Lee Statistics and Computing Ltd, United Kingdom)

16.50 **O20** **Title to be communicated**
D. Trichopoulos (University of Athens, Greece)

17.10 **O21** **Initiatives taken within parents in school to reduce passive smoking risks**
C. Arciti, B. Doglio & L. Santi (Istituto Nazionale per la Ricerca sul Cancro, Genova, Italy)

17.20 **O22** **Environmental tobacco smoke and lung cancer**
E.L. Wynder (American Health Foundation, USA)

17.30 **O23** **Induction of liver and lung microsomal monooxygenases by a tobacco smoke**
V.V. Khudoley (N.N. Petrov Research Institute of Oncology, Leningrad, USSR)

17.40 **O24** **Isoprene - A potential indoor indicator for environmental tobacco smoke**
G. Lfroth (Nordic School of Public Health, Gothenburg, Sweden)

17.50 **O25** **The passive smoking myth**
N. Mantel (The American University, Washington, U.S.A.)

18.05 **O26** **Relative lung cancer risk from exposure to mainstream and sidestream smoke**
J.J. McAughey, J.N. Pritchard & A. Black (Environmental & Medical Sciences Division, Harwell Laboratory, Oxon, United Kingdom)

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Tuesday, 14 February 1989
Mardi, 14 février 1989

Astrid Hall
18.15-19.30

POSTER SESSION

P1 **Measurements of environmental tobacco smoke in an air-conditioned office building**
C.J. Proctor, N.D. Warren & M.A.J. Bevan (BAT-UK&E Research & Development Centre, Southampton, United Kingdom)

P2 **Pollution de l'air par la nicotine, à l'intérieur de divers locaux**
C. Arfi*, J. Kaloustian*, A.M. Pauli*, J. Pastor* , F. Grimaldi**, F. Gouezo**, A. Viala**, E. Muls **, F. Ravoire*, A. Crestin* & J. Prat* (*Laboratoire de Chimie Analytique & **Laboratoire de Toxicologie, Faculté de Pharmacie, Marseille, France)

P3 **Health consequences of atopy, food intolerance and indoor environment : a case study**
E. Sammaljarvi (University of Helsinki, Dept of Physics, Finland)

P4 **Assessment of exposure to emissions from a liquified petroleum gas stove use in urban India**
V. Haraprasad & J.M. Dave (Neeri Zonal Laboratory, New Delhi & *School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India)

P5 **Quality of Indoor Environment in dwellings according to performance of heating system**
D. Petrs (Slovak Technical University, Bratislava, Czechoslovakia)

P6 **Assessing the validity of a Japanese cohort study**
M. W. Layard & *J.R. Viren (Failure Analysis Associates, Palo Alto, California & *R.J. Reynolds Tobacco Company, Winston-Salem,. North Carolina, U.S.A.)

P7 **Impact of biomass combustion on indoor environment and health**
S. Jindal & R. Prasad (Centre for RD and AT, New Delhi, India)

P8 **Destruction des acariens & biodécontamination de l'environnement domestique**
M. Blanc & Ch. Boutin* (Clinique de l'Oasis, Saint-Tropez & *Centre Hospitalier Universitaire, Marseille, France)

P9 **Oxides of nitrogen and respiratory illness. Is there a susceptible population ?**
J.M. Sneddon (The William Harvey Research Institute, St. Bartholomew's Hospital Medical College, London, United Kingdom)

P10 **Dust in the work environment : Effect of pharmacological agents on the airway response to inhaled cotton dust.**
P.J. Nicholls, M. McDermot, M. Bevan & D. Griffiths-Johnson (Welsh School of Pharmacy, University of Wales, Cardiff, United Kingdom)

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Astrid Hall
18.15-19.30

Poster Session (cont'd)

P11 **Model to assess the correlation of indoor and outdoor air pollutants-exposure and health effects**
D. Ngoo Phong & al (Hanoi Medical School, Vietnam)

P12 **Study on the interaction of risk factors of acute reapiratory infections in children below 5 years of age in Vietnam**
D. Ngoo Phong (Hanoi Medical School, Vietnam)

P13 **Study on health effects of indoor air pollutants from direct burning of coal with high fluoride content in China**
Ji Rongdi & Cao Shouren (Institute of Environmental Health and Engineering Chinese Academy of Preventive Medicine, Beijing, China)

P14 **Exposure to carbon oxide inside shops placed along a high-traffic street**
F. Valerio & C. Brescianini (Istituto Nazionale Ricerca sul Cancro, Genova, Italy)

P15 **Studies of air pollution around a cement factory in Dar-Es-Salaam (Tanzania)**
M.W. Kudoja (Zoology Department, University of Nairobi, Kenya)

P16 **Effect of reservoir fuel levels on emissions from a kerosene cook stove**
J.M. Dave & V. Haraprasad (School of Environmental Sciences, Jawaharlal Nehru University, New Delhi & Neeri Zonal Laboratory, New Delhi, India)

P18 **Moulds, mites and moisture of inner walls in dwellings**
H.S.M. Kort & J.E.M.H. van Boswijck (Interuniversity working group Home and Health, Department of Dermatology, Utrecht State University, Utrecht, The Netherlands)

P19 **Absolute indoor air humidity and the abundance of allergen producing house dust mites and fungi in The Netherlands**
G. Schober (Interuniversity working group Home and Health, Utrecht State University, Utrecht; The Netherlands)

P20 **Nicotine absorption in humans following exposure to environmental tobacco smoke generated from different types of cigarettes.**
JD. deBethizy, L.E. Bates, R.A. Davis, D.L. Heavner, P.R. Nelson, J.C. Walker & J.H. Robinson (R.J. Reynolds Tobacco Company, Winston-Salem, North Carolina, U.S.A.)

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Tuesday, 14 February 1989
Mardi, 14 février 1989

Astrid Hall
18.15-19.30

Poster Session (cont'd)

P21 **Characterization of the environmental tobacco smoke generated by different cigarettes**
P.R. Nelson, D.L. Heavner & B.B. Collie (R.J. Reynolds Tobacco Company, Bowman Gray Technical Center, Winston-Salem, North Carolina, U.S.A.)

P23 **Health and social problems of carbon monoxide poisoning by using anthracite coal as a space heating fuel in Korea**
Yong Chung & Dongchun Shin (Institute for Environmental Research, Seoul, Korea)

P24 **Contrôle de la qualité de l'air dans les garages collectifs**
F. Cupelin & J.-Cl. Landry (Service cantonal d'écotoxicologie, Genève, Suisse)

P25 **Un analyseur d'oxydes d'azote à l'étude de la pollution intérieure : l'APPI-AC 35**
B. Millancourt (Electricité de France, Direction des Etudes et Recherches, Chatou, France)

P26 **Automatic analyser prototype for atmospheric isoprene and monoterpenes**
M.L. Riba, B. Clement, M. Haziza & L. Torres (Ecole Nationale Supérieure de Chimie de Toulouse, Institut National Polytechnique, Toulouse, France)

P27 **Perméabilité, étanchéité ou transparence à l'air des bâtiments, des applications différentes pour un même problème**
M. Kilberger (Centre d'Etudes Techniques de l'Equipement de Lyon, France)

P28 **Tobacco smoke and indoor air pollution**
P. Thirumalaikolundusubramanian & S. Shanmuganandan (*Madurai Medical College & Department of Geography, Madurai Kamaraj University, India)

P29 **On the use of environmental tobacco smoke component ratios**
G.B. Oldaker III* ,**W.E. Crouse & R.M. DePinto (*R.J. Reynolds Tobacco Company, Winston Salem, NC & **Lorillard Inc., Greensboro, NC , USA)

O30 **Sensory responses to environmental tobacco smoke from cigarettes that heat but do not burn tobacco**
J.C. Walker, R.A. Jennings, W.T. Morgan, J.H. Robinson & J.H. Reynolds IV (R.J. Reynolds Tobacco Company, Winston-Salem, North Carolina, U.S.A.)

044 **Regression model for indoor concentrations of combustion-generated gases**
A. Hendel-Kramer, J. Kuhr, R. Urbanek, H. Staiger*, E. Schultz* & W. Karmaus**
(University Children Hospital, Freibug, *German Weather Service, Freiburg & **Centre of Science, Berlin, F.R. Germany)

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Wednesday, 15 February 1989 **Albert I Hall**
Mercredi, 15 février 1989

Session II

INDOOR AIR QUALITY : CHEMISTRY AND BIOLOGICAL EFFECTS
QUALITÉ DE L'AIR AMBIANT : CHIMIE ET EFFETS BIOLOGIQUES

Chairmen
S.J. Kilpatrick, Jr. & R. Rylander

09.00 **O27** **Exposure to ets and its biological effects**
F. Adlkofer, G. Scherer, L. Von Meyerinck, Ch. Von Maltzan & L. Jarczyk (Forschungsgesellschaft Rauchen und Gesundheit mbH, Hamburg, F.R. Germany)

09.20 **O28** **Carbonyl compounds in mainstream and sidestream cigarette smoke**
H. Schlitt & H. Knppel (Commission of the European Communities, Joint Research Centre, Environment Institute, Ispra, Italy)

09.35 **O29** **Nicotine uptake through the airway during passive smoking and its effect on annoyance**
A. Iwase, H. Saitoh, Y. Doi, M. Aiba, N. Yamauchi, T. Miyara & S. Kira (Department of Respiratory Medicine, Juntendo University, School of Medicine, Hongo, Tokyo: Japan)

09.50 **P17** **Etude des relations à échelle fine entre pollutions intérieure et extérieure (SO2NOxparticules) dans un hôpital de la région Parisienne**
J.C. Lowenstein (Electricité de France, Direction des Etudes et Recherches, Chatou, France)

10.05 **O31** **Nonsmokers attitude towards indoor air quality**
S. Shanmuganandan & P. Thirumalaikolundusubramanian* (Department of Geography, Madurai Kamaraj University & *Department of Medicine, Madurai Medical College, India)

10.20 **O32** **Perception of daily cigarette consumption in the office environment**
D.A. Sterling, D.J. Moschandreas* & R.D. Gibbons** (Old Dominion University, Norfolk, Virginia, *IIT Research Institute, Chicago & **University of Illinois, Chicago, Illinois, U.S.A.)

10.35 **Coffee break/Pause café**

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Wednesday, 15 February 1989 **Albert I Hall**
Mercredi, 15 février 1989

Session II (cont'd)

INDOOR AIR QUALITY : CHEMISTRY AND BIOLOGICAL EFFECTS
QUALITÉ DE L'AIR AMBIANT : CHIMIE ET EFFETS BIOLOGIQUES

Chairmen
D. Rondia & M. Mansour

11.00 **O33** **Accumulation of semi-volatile chemicals in indoor-environment**
I. Gebefügi & F. Korte (Gesellschaft fur Strahlen- und Umweltforschung mbH München, Institut für Ökologische Chemie, Neuherberg & Technical University of Munich, Institute of Chemistry, Chair of Ecological Chemistry, Freising-Weihenstephan, F.R. Germany)

11.15 **O34** **Role of combustion products in bronchial hyperreactivity - A case control study**
M. Bert, J. Kühr, A. Hendel-Kramer, R. Urbanek, E. Schultz*, H. Staiger* & W. Karmaus** (University Children Hospital, Freiburg, *German Weather Service, Freiburg & **Centre of Science, Berlin, F.R. Germany)

11.30 **O35** **Use of molecular biologic techniques to study pulmonary fibrosis**
A. Poole (Smith Kline and French Research Ltd. The Frythe, Welwyn, United Kingdom)

11.45 **O36** **Glucans as potential inflammatory agents in indoor air**
R. Rylander, S. Srensen, H. Goto*, K. Yuasa* & S. Tanaka (Department of Environmental Hygiene, University of Gothenburg, Sweden & *Institute of Medical Sciences, Tokyo, Japan)

12.00 **O37** **The contribution of unvented natural gas combustion to indoor air quality**
I. Billick (Gas Research Institute, Chicago, U.S.A.)

12.15 **O38** **An epidemiologic study of the dose-response relationship between BaP concentration in indoor air and lung cancer mortality in Xuan Wei, China**
Xingzhou He & Wei Chen (Institute of Environmental Health and Engineering Chinese Academy of Preventive Medicine, Beijing, China)

12.30 **Lunch break/Pause déjeuner**

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Wednesday, 15 February 1989 **Albert I Hall**
Mercredi, 15 février 1989

Session III

INDOOR AIR QUALITY : VENTILATION, CLIMATISATION AND POLLUTANTS
QUALITÉ DE L'AIR AMBIANT : VENTILATION, CLIMATISATION ET POLLUANTS

Chairmen
C. Molina & J.E.H.M. van Bronswijk

14.00 O39 **Ventilation, health and energy conservation : a workable compromise**
G. Robertson (ACVA Atlantic Inc., Fairfax, VA, USA)

14.20 O40 **Sick buildings can be controlled through air quality specifications and monitoring**
T. Astrm (Västra Frlunda, Sweden)

14.35 O42 **Aeroallergen species and their indoor/outdoor relationship**
D.A. Sterling & T.H. Stock* (Old Dominion University, Norfolk & *University of Texas, Houston, Texas, U.S.A.)

14.50 O43 **Quelques exemples d'études d'ambiances climatisées**
A. Mouilleseaux, F. Squinazi & B. Festy (Laboratoire d'Hygiène de la Ville de Paris, France)

15.05 O45 **Residence time of vapour pollutants in the atmosphere**
M. Mansour (Institut für Okologische Chemie, Freising Attaching, F.R. Germany)

15.20 O46 **A Czechoslovak survey about ventilation habits in dwellings**
L. Pirsel (Slovak Technical University, Bratislava, Czechoslovakia)

15.20-15.50 **Discussion**

15.50 **Coffee break/pause café**

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Wednesday, 15 February 1989 **Albert I Hall**
Mercredi, 15 février 1989

Session III (cont'd)

INDOOR AIR QUALITY : VENTILATION, CLIMATISATION AND POLLUTANTS
QUALITÉ DE L'AIR AMBIANT : VENTILATION, CLIMATISATION ET POLLUANTS

Chairmen
J. Bignon & G. Löfroth

16.30 O47 **Emissions from building materials. The role of additives in PVC-materials**
K. Saarela, K. Kaustia & A. Kiviranta (Technical Research Centre of Finland, Chemical Laboratory, Espoo, Finland)

16.45 O48 **Influence of indoor air pollution on NO2 personal exposure levels of school-children**
Y. Shimizu, S. Imai* & Y. Tsunetoshi** (Department of Public Health, Saitama Medical College, *Department of Public Health, Osaka Prefectural Government & **Department of Public Health, Miyazaki Medical College, Japan)

17.00 O49 **Statistical significance of home indoor air fungal spore samples in time and space**
M. J. Jantunen, A. Nevalainen, A-L. Pasanen* & P. Kalliokosi* (National Public Health Institute, Kuopio & *University of Kuopio, Finland)

17.15 O50 **Indoor Pollution by mineral fibers**
J. Bignon, G. Dufour*, P. Brochard & A. Gaudichet** (*Clinique de Pathologie Respiratoire et Environnement, INSERM 139, Creteil, *Laboratoire d'Etude des Particules Inhalées, DASES, Paris & **Lamaast, Université Paris XII, Créteil, France)

17.30 O51 **Indoor Air Quality, Housing and Health**
S. Shanmuganandan & P. Thirumalaikolundusubramanian* (Department of Geography, Madurai Kamaraj University & *Department of Medicine, Madurai Medical College, India)

17.45 O52 **The Acarex/Acarosan concept, its possibilities in allergology and dermatology**
J.E.H.M. van Bronswijk & G. Schober (Interuniversity working group Home and Health, Utrecht State University, Utrecht, The Netherlands)

18.00 O53 **Lutte contre les excréments d'acariens porteurs d'allergènes dans l'air ambiant**
E. Bischoff (Gesellschaft fur Hausbiologische Forschung, Mainz, F.R. Germany)

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Thursday, 16 February 1989
Jeudi, 16 février 1989

Albert I Hall

Session IV

INDOOR AIR QUALITY : PREVENTION AND FUTURE GUIDELINES
QUALITÉ DE L'AIR AMBIANT : PREVENTION ET ORIENTATIONS FUTURES

Chairmen
A.V. Nero Jr. & Cl. Bieva

09.00 O54 **Developing an effective perspective on the risks and control of indoor air pollutants**
A.V. Nero Jr. (Lawrence Berkeley Laboratory, USA)

09.30 O55 **New concepts of control and prevention in residential design and construction**
P. Bierman-Lhytle (The Masters Corporation, New Canaan, Connecticut, U.S.A.)

09.45 O56 **Portable air sampler for measurements in aircraft and public buildings**
J.F. van der Wal (MT-TNO, Delft, The Netherlands)

10.00 **Coffee break/Pause café**

10.30 O57 **Demand controlled ventilating systems, new concepts for indoor air quality and energy conservation**
L. Trepte (Dornier-System, Friedrichshafen, F. R. Germany)

10.45 O58 **A database of problem buildings : learning by past mistakes.**
C.W. Collett, E.M. Sterling, T.D. Sterling* & J.J. Weinkam* (Theodor D. Sterling & Associates, Vancouver & *School of Computing Science, Faculty of Applied Sciences, Simon Fraser University, Burnaby, Canada)

11.00 O59 **Programme de traitement en vue de la lutte contre la pollution microbiologique interne occasionnée par les installations de climatisation mal entretenues.**
E. Clement (De Kobra, Opwijk, Belgique)

11.15 O60 **Present and future exceedence of health related reference values for air pollutants in dutch dwellings**
H.J. van de Wiel & E. Lebret (National Institute of Public Health and Environmental Protection, Bilthoven, The Netherlands)

11.30 P25 **Un analyseur d'oxydes d'azote à l'étude de la pollution intérieure : l'APPI-AC 35**
B. Millancourt (Electricité de France, Direction des Etudes et Recherches, Chatou, France)

11.45 O62 **Les actions françaises de recherche incitative pour la maîtrise de la qualité de l'air intérieur des locaux habitables**
J.P. Marie* & P.C. Jacquignon (*Plan Construction et Architecture & Secrétariat d'Etat à l'Environnement, Paris, France)

12.00 O63 **Ventilation system retrofits as a method of solution for the sick building syndrome**
E.M. Sterling & C.W. Collett (Theodor D. Sterling & Associates, Vancouver, Canada)

12.15 **Closing session/Séance de clôture**

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